PTO/SB/17 (12-04v2)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE der the Reservork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number

Effective on 12/08/2004,
Suant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL For FY 2005

Applicant claims small entity st	atus.	See 37	CFR 1.:	27
TOTAL AMOUNT OF PAYMENT	(\$)		180.00	

Complete if Known					
Application Number	10/782,284				
Filing Date	February 18, 2004				
First Named Inventor	John Santhoff et al.				
Examiner Name	Melanie Jagannathan				
Art Unit	2666				
Attorney Docket No.	00121				

METHOD OF PAYMENT	METHOD OF PAYMENT (check all that apply)						
✓ Check Credit Card Money Order None Other (please identify):							
Deposit Account De	posit Accoun	t Number: <u>50-314</u>	3	Deposit A	.ccount Name:_F	Pulse~LINK,	Inc.
For the above-identifi	ed deposit a	account, the Direct	tor is hereb	y authorized to	: (check all th	at apply)	
Charge fee(s)	indicated be	elow		Charg	ge fee(s) indica	ated below, exc	ept for the filing fee
Charge any ac	Iditional fee	(s) or underpayme	nts of fee(s) 🗸 Credi	it any overpay	ments	
under 37 CFR warning: Information on this			t card inform				ovide credit card
information and authorization	on PTO-2038.	·					
FEE CALCULATION						 	
1. BASIC FILING, SEAR	FILING I		SEARCH			TION FEES	
Application Type	Fee (\$)	Fee (\$)	Fee (\$)	Emall Entity Fee (\$)	Fee (\$)	mall Entity Fee (\$)	Fees Paid (\$)
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	.0	0	0	
2. EXCESS CLAIM FEE Fee Description	S					<u>Fee (\$)</u>	Small Entity Fee (\$)
Each claim over 20 (in						50	25
Each independent clai Multiple dependent cl		including Reissi	ies)			200 360	100 180
	anns Extra Clain	ns Fee (\$)	Fee Pa	aid (\$)			pendent Claims
20 or HP =			_=			Fee (\$)	Fee Paid (\$)
HP = highest number of total Indep. Claims	claims paid fo Extra Clain		Fee Pa	uid (\$)			
- 3 or HP =	Extra Olairi	_ x	.= <u></u>				
HP = highest number of indep		paid for, if greater the	nan 3.				
3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer							
listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50							
sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$) - 100 = /50 = (round up to a whole number) x =							
4. OTHER FEE(S) Non-English Specific	ation, \$1			•		-	Fees Paid (\$)
Other (e.g., late filing	surcharge):Supplemental In	formation [oisclosure (PT	O/SB/08A&B)		\$180.00

SUBMITTED BY	1201		
Signature	1////	Registration No. (Attorney/Agent) 42,845	Telephone 760-607-0844
Name (Print/Type)	Peter R. Martinez		Date November 9, 2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

November 9, 2005





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applio	cation of:	.)		
	John Santhoff et al.)		•
Serial No.:	10/782,284)	Art Unit:	2666
Filed:	February 18, 2004)		
For:	ULTRA-WIDEBAND COMMUNICATION PROTOCOL)	Examiner:	Melanie Jagannathan
			•	Carlshad Californi

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Ms.:

In accordance with 37 C.F.R. § 1.56, Applicants make the documents listed on the enclosed PTO/SB/08 form of record in the above-identified application. In accordance with 37 C.F.R. § 1.97, this statement is not to be construed as a representation that a search has been made, and is not a representation that the information cited is effective as prior art to the application or is material to patentability.

Copies of the U.S. patents and non patent literature listed on the enclosed form PTO/SB/08 are not enclosed, in accordance with the waiver of the requirement of 37 C.F.R. § 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 that appears in the

Official Gazette Notice (Week No. 31) dated August 5, 2003 and entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications Filed After June 30, 2003."

However, the two (2) foreign patent documents and the 8 non-patent literature documents listed on the PTO/SB/08 form are included for review and consideration.

The U.S. and foreign, patents and published patent applications, and the non-patent literature listed on the enclosed PTO/SB/08 form are cited in several of the following patent applications, which may be related to the present application: Serial No. 10/663,174, filed September 15, 2003; Serial No. 10/782,134, filed February 18, 2004; Serial No. 11/156,135, filed June 17, 2005; and Serial No. 10/835,441, filed April 28, 2004.

In accordance with 37 C.F.R. § 1.97(c), this supplemental information disclosure statement shall be fully considered by the U.S. Patent & Trademark Office since Applicant filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing date of any final action, notice of allowance or an action that otherwise closes prosecution in the application, and is accompanied by the requisite fee as set forth in 37 C.F.R. § 1.17(p) in the amount of \$180.00.

It is respectfully requested that these documents be (1) fully considered by the U.S. Patent and Trademark Office in the examination of the above-identified application; and (2) printed on any patent(s) that may issue from this application. It is also respectfully requested that a copy of Form PTO/SB/08A, as considered and initiated by the Examiner, be returned to the undersigned with the next communication in accordance with M.P.E.P. § 609.

Respectfully submitted,

November 9, 2005

Date

Peter R. Martinez

Attorney for Applicant(s)

Reg. No. 42,845

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Carlsbad, CA 92008

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PTO/SB/08A (08-03)

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Under the Part Work Reduction Substitute for form 1449/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number 10/782,284

Filing Date February 18, 2004

First Named Inventor John Santhoff et al.

Art Unit 2666

Examiner Name Melanie Jagannathan

Attorney Docket Number 00121

			U. S. PATENT	T DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (f known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		^{US-} 3,648,287	03-07-1972	LIND	
		^{US-} 4,586,177	04-1986	KAUL	
		^{US-} 5,463,657	10-1995	RICE	
		^{US-} 5,530,701	02-05-1996	STILLMAN ET AL.	
		^{US-} 5,535,239	07-1996	PADOVANI ET AL.	
		^{US-} 5,551,066	08-27-1996	STILLMAN ET AL.	
		^{US-} 5,636,140	06-1997	LEE ET AL.	
		^{US-} 6,041,046	03-2000	SCOTT ET AL.	
		^{US-} 6,088,324	07-2000	SATO	
		^{US-} 6,526,264	02-2003	SUGAR ET AL.	
		^{US-} 6,754,195	06-2004	WEBSTER ET AL.	
		^{US-} 6,760,300	07-2004	EBERLE ET AL.	
		^{US-} 6,856,610	02-2005	SCHMIDT ET AL.	
		^{US-} 6,873,611	03-2005	RIOS	
		^{US-} 6,898,198	05-2005	RYAN ET AL.	
		^{US-} 2002/0126739	09-2002	TIEDEMANN ET AL.	
		^{US-} 2003/0189975	10-2003	FULLERTON	
		^{US-} 2004/0199686	10-2004	KARAOGUZ	
		^{US-} 2004/0151109	08-2004	BATRA ET AL.	

Examiner Cite	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
		Country Code ³ "Number ⁴ "Kind Code ⁵ (<i>if known</i>)	MM-DD-YYYY		Or Relevant Figures Appear	T
		WO 98/27670	06-25-1998	MICRON		
		EP 0 825 794 A2&A3	02-25-1998	LUCENT		
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Examiner	•	Date	
Signature		Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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			ct or 1995, no persons ar	Complete if Known			
Jubstitu	ubstitute for form 1449/PTO			Application Number	10/782,284		
INF	ORMATION	DIS	CLOSURE	Filing Date	February 18, 2004		
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	John Santhoff et al.		
				Art Unit	2666		
(Use as many sheets as necessary)		Examiner Name	Melanie Jagannathan				
Sheet	2	of	2	Attorney Docket Number	00121		

		NON PATENT LITERATURE DOCUMENTS	•
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		WILLIAM D HORNE & PETER WEED, Adaptive Spectrum Radio: A Feasibility Platform On The Path To Dynamic Spectrum Access, International Symposium On Advanced Radio Technologies, March 5, 2003, 1 page.	
		AYAL SHOVAL, W MARTIN SNELGROVE & DAVID A JOHNS, A 100 Mb/s BiCMOS Adaptive Pulse-Shaping Filter, IEEE Journal On Selected Areas in Communications, December 2003, 11 pages, Vol. 13, No. 9.	
		WILLIAM D HORNE, Adaptive Spectrum Access: Using the Full Spectrum Space, 15 pages.	
		PENTEK, INC., MITRE Designs an Adaptive Spectrum Radio Platform, The Pentek Pipeline, Spring 2003, 4 pages, Vol. 12, No. 1.	
		DR. DANIEL SCHAEFER & MR. STEVE COX, Adaptive Spectrum Utilization with Software Defined Radio, October 2, 2002, 23 pages.	
		FEDERAL COMMUNICATIONS COMMISSION, Notice of Proposed Rule Making, In the Matter of Authorization and Use of Software Defined Radios (ET Docket No. 00-47), December 8, 2000, 23 pages.	
		FEDERAL COMMUNICATIONS COMMISSION, Notice of Proposed Rule Making and Order, In the Matter of Facilitating Opportunities for Flexible, Efficient, and Reliable Spectrum Use Employing Cognitive Radio Technologies (ET Docket No. 03-108) & Authorization and Use of Software Defined Radios (ET Docket No. 00-47 Terminated), December 30, 2003, 53 pages.	
		FEDERAL COMMUNICATIONS COMMISSION, Notice of Inquiry And Notice of Proposed Rule Making and Order, In the Matter of Establishment of an Interference Temperature Metric to Quantify and Manage Interference and to Expand Available Unlicensed Operation in Certain Fixed, mobile and Satillite Frequency Bands (ET Docket No. 03-237), November 28, 2003, 31 pages.	

Examiner	Date	
Signature	Considered	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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